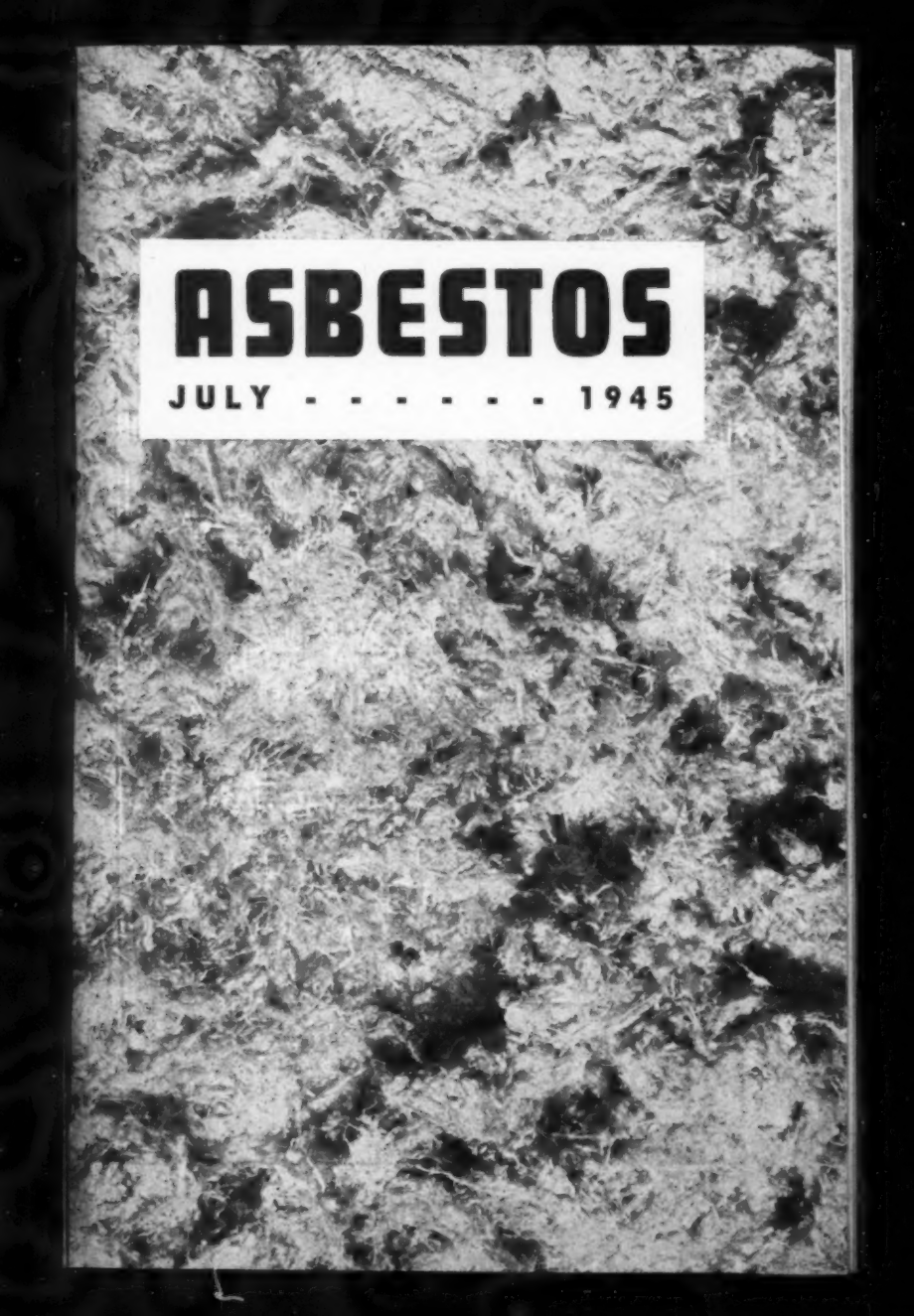
ASBESTOS
JULY - - - - - - 1945

ASBESTOS RM TEXTILES

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THROUGHOUT THE WAR YEARS, THE PLANTS OF **RAYBESTOS-MANHATTAN, INC.**, HAVE SUPPLIED A VARIED LINE OF ASBESTOS PRODUCTS FOR WAR-TIME NEEDS —AND PRODUCTION HAS BEEN BOTH SUSTAINED IN VOLUME AND CONSISTENT IN QUALITY—TO MEET EXACTING SPECIFICATIONS. IN THE POST WAR YEARS TO COME, **RAYBESTOS-MANHATTAN** WILL TURN ITS IMPROVED EQUIPMENT AND ITS WAR-STIMULATED MANUFACTURING TALENT TO PRODUCE A BROAD AND DIVERSIFIED LINE OF ASBESTOS PRODUCTS TO MEET THE SPECIFICATIONS OF AN INDUSTRIALLY-ACTIVE PEACE-TIME WORLD.

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"ASBESTOS"

FOUNDED IN JULY 1919 AND PUBLISHED
MONTHLY SINCE THAT DATE

BY SECRETARIAL SERVICE
17th FLOOR INQUIRER BUILDING
PHILADELPHIA, 30, PENNSYLVANIA

Estate of C. J. STOVER, *Proprietor*
A. S. ROSSITER, *Editor*
E. E. COX, *Circulation Manager*

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A COMMON VANTAGE GROUND

This July number starts the 27th volume of "ASBESTOS", meaning the 27th year. Twenty-six years is a long-time! The slogan which appeared on the cover of the early issues—*Furnishing a common vantage ground where those interested in asbestos and magnesia may meet for discussion*—is still our slogan, even tho we haven't reminded you readers of it for some time.

Added to this slogan is our endeavor to supply special information on asbestos and the Asbestos Industry, by the distributing of reprints, by attempting thru correspondence to obtain data in answer to special requests, by reference to books, government reports, technical articles, which form a part of our collection of asbestos data, and in any other way in our power.

This is a fine opportunity to thank those of our readers who have helped us to obtain such special information. We could name a number of executives in the Industry on whom we depend almost regularly for help of this kind. And we are often really amazed at their willingness (altho they are very busy men) to take the time and trouble to help us solve asbestos problems, or answer questions asked. Sometimes, in fact, knowing of the many weighty matters which occupy their time and attention at the present, we hesitate to ask for assistance, only to find that they are more than willing to give it.

It is this willingness which is largely responsible for any success which "ASBESTOS" may have attained. It is this willingness which helps us to do our part to carry out the slogan—*Furnishing a common vantage ground where those interested in asbestos and magnesia may meet for discussion.*

WARTIME DEVELOPMENTS

During the past war years there have been innumerable inventions of all kinds which have in some manner either benefitted our armed forces, or helped pave the path to peace.

A lot of these have been collected and published by

the Department of Labor under the name "Wartime Technological Development"[1] in a report covering 400 pages and containing 1400 items.

Undoubtedly the ones listed are only a tenth, or perhaps a thousandth part of the number of methods, processes, materials, etc., actually worked out for the war. Some of the others are still military secrets and cannot be divulged at the moment.

In the asbestos field alone there are several new products or processes which we doubt would ever have been invented or discovered without the incentive of war. We have published a number of them; there must be many others which are still kept secret or which for one reason or another, or perhaps just by chance, have not come to our attention.

Just a few days ago we heard of a use for asbestos fibre, in a certain process, for which no other fibre can be relied upon to give the desired results. And the *results* in this instance are vitally necessary in war and may probably be very useful in peace. Besides, the asbestos fibre must be of a certain type—other types won't do the trick. We are trying to get the whole story on this for publication a little later.

Our readers are requested to tell us about such materials or processes whenever and as soon as it is permissible to do so. Send us descriptions and, whenever possible, a sketch to illustrate.

THE NEW COVER

This new, 27th volume has a new cover.

The photograph is a very realistic one, and recognizable by anyone as depicting asbestos fibre. The original photograph was furnished by The Thermoid Company of Trenton, N. J., and the asbestos fibre shown is what is known as "combed" asbestos fibre, which is described as 100% pure asbestos, obtained by mechanically treating the asbestos so that the fibres to lie in the same direction.

[1] Obtainable from the U. S. Government Printing Office, Washington, 25, D. C., for 50c.

PREFABRICATED BUILDINGS USED FOR NAVY HOSPITALS

Three great Navy hospitals, each of approximately 1000-bed capacity, recently were completed in California as the final items on the war construction program of Modulok, Inc., a corporation which developed a prefabrication system primarily for this type of building.

The company's contracts included fifteen Navy projects all employing Cemesto Board, the asbestos-cement, vapor-seal laminated sandwich combination of the Celotex Corporation. These fifteen projects included some of the largest buildings ever prefabricated, two stories high and over three hundred feet in length, and involved barracks, mess halls, administration buildings, war apartments, staff residences, infirmaries and other types, as well as the Coast hospitals.

Two of the hospital projects, each made up of thirty-odd separate structures, are in Southern California and one in the San Francisco Bay area. The completed jobs have been the subject of official commendation by naval and health authorities and are conceded to be the nearest to fireproof buildings possible in frame construction. All lumber employed was flash-proofed with a chemical dip. Sub-floors and roof deckings are of a solid inch of gypsum plank for fire protection. Insulation features are unusual with Cemesto Board exterior walls, 2¾" air space, inner walls of gypsum laminated with white felt base linoleum; ceilings of gypsum covered with rock wool batts; pitch roofs sheathed with 1¾" of Celotex vapor-seal, covered with ninety-pound mineral surfaced roofing felt. Finished floors are of high quality "streamline" factory-finished oak, such as is found in many fine homes.

These hospitals were built in substantial accord with the Standard Building Code of California and while rated as "temporary structures," should serve for veteran hospitalization as long as the nation needs them. They have such unusual features as "shear walls" for earthquake stresses, which, with diagonal roof strippings and tie

Where *BTU's* go *AWOL*

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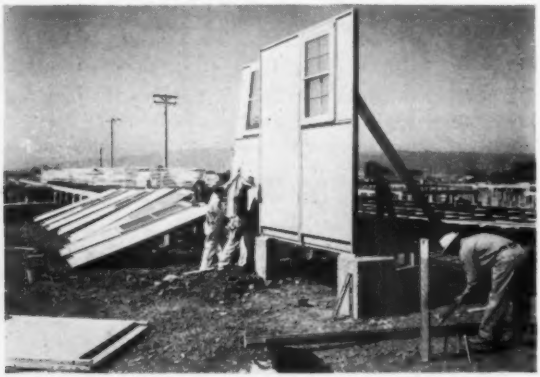
plates at the roof line virtually made diaphragms of these buildings.

The unusual design of these hospitals in most instances followed a herring bone pattern of 210 foot buildings angling from a single long connecting corridor. The Hospital Division, Bureau of Yards and Docks, in connection with the Bureau of Medicine and Surgery, under personal supervision of F. E. Southworth, chief architect of the Bureau of Yards and Docks, developed this design with Modulok, Inc., over a period of six months of study and experimentation. Every possible factor of safety and comfort has been considered. Every bed-ridden patient could be evacuated in a matter of minutes. In the hottest weather, when temperatures mount to 110°F. and



Erecting sides of prefabricated hospital for the Navy. An almost completed building is shown on page 10.

higher, it has been found that these buildings with all windows open are twenty to thirty degrees cooler than outdoors.

Capt. R. R. Parsons, medical commandant at the hospital in Northern California, has characterized it as "the best temporary hospital I have seen, of any character" and the engineering and medical staffs, highly

ASBESTOS

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pleased with the substantial and attractive nature of the war buildings, added new refinements usually found only in permanent base hospitals, such as the wiring of every bed for radio, installation of bed lamps and the use of battleship linoleum, not usually considered for temporary structures.

Prefabrication of Navy hospitals makes it possible for officials to have parts stored in advance at strategic points to be shipped immediately wherever needed for speedy construction. The fact that this war has brought about new medical conditions, including shorter hospitalization periods due to the use of sulfa drugs and blood plasma, makes it impossible for the Navy medical corps to estimate its needs far in advance and emphasizes the advantages of prefabrication. *All such units are demountable and can be moved after the war, if desired, to be used in other locations by the Veterans' Administration.*

Actual construction of the Coast hospitals was undertaken by the Northwest Coast Products Company of Portland, Oregon, now operating as the Prefabrication Engineering Company (Prenco), also of Portland. The buildings were designed and contracted for by Modulok, Inc., which also negotiated and supervised construction. The prefabrication work was done by Northwest Coast Products Co. (subsidiary of the C. D. Johnson Lumber Co.) at Toledo, Oregon, and the Pacific Manufacturing Company of Santa Clara, California. Panel assembly was all done at the last named company's plant. The buildings were assembled at the three different naval bases. Erection work at the Northern California base was done by Wesco Construction Company of Los Angeles. Assembly at the Southern California bases was performed by Wm. Simpson Company and the P. J. Walker Company, both of Los Angeles. These leading Coast construction contractors have expressed themselves as greatly impressed not only with the wartime advantages of this prefabrication system but also with its peacetime possibilities.

Indicative of the high degree of success attained in

(PHOTO—COURTESY OF STATE OF VERMONT)

Vermont for old covered bridges and... Asbestos

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fireproofing was a fire test made by Capt. Harold L. Jensen, Medical Commandant at one hospital. He had the concentrated flame of an acetylene blow torch applied for 45 minutes to a single section of an outer wall. Result was a spot about the size of an orange from which tiny cracks radiated. When the wall was cut open the core of it was found to be charred for a space the size of a silver dollar. The second layer of asbestos cement board was in no way affected.

Modulok is rather novel among all the prefabricated systems developed during this war. It consists, essentially, of 4′ modular panels in 8′, 10′ and 12′ heights, with a unique locking joint cut into 2′x4′ frames which interlock in all directions,—with floors, adjoining wall sections and roof. Modulok buildings developed unusual strength and under elaborate engineering tests far surpassed most conventionl construction. The system was developed primarily for naval construction and the company became inoperative following completion of its extensive naval program. Arnold Southwell, the inventor of Modulok, is now engaged in special development work for the C. D. Johnson Lumber Company of Portland, Oregon. Teel Williams, president of the concern, is now associated with the J. Walter Thompson Company in New York City.

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	ASBESTOS TEXTILES
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ASBESTOS CORRUGATED	ASBESTOS ACOUSTICAL MATERIAL

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ASBESTOS DUCTS FOR AIRCRAFT

Millions of manhours have been saved and practically all metal has been eliminated from heating and ventilating air duct systems in aircraft by the discovery and development, by the United States Rubber Company of a fire-resistaht asbestos fabric product. While the material has previously been briefly described in "ASBESTOS", more details as to advantages and uses are now available for publication.

This multiflex material will replace items made of aluminum and other metals, and will also save the work of welding, die-casting, riveting, pattern making, intricate metal processing, which were previously essential "musts" in the construction of aircraft duct systems.

A paramount bottleneck found wherever a metal duct system is used in aircraft construction, has been metal fatigue caused by vibration and other factors. This is now eliminated. The new product is also non-magnetic, important for the proper performance of delicate instruments and good radio performance.

The construction of this new product is such that if penetrated by bullets or flak the puncture can be easily and speedily repaired as there is no flare in the material after the missile passes thru it.

The material is made of asbestos fabric and a coating of resin, giving a flexible form of airduct which saves over 10% of the weight of the previously used metal duct systems. It can be twisted and turned or completely deformed and then can be easily returned to its original shape; this quality means higher speed production schedules in the aircraft industry.

It can be used in many places where pipe bending is required; can be formed into intricate shapes and angles for fittings in a matter of minutes, thus eliminating the bending and fitting of joints and elbows with metal. An example of time and material savings: a 1000 unit order which employed 20 men for two shifts of eight hours each was turned out five weeks ahead of schedule, thus saving 320 man hours per day for five weeks.

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Multiflex Air Ducts in various styles and shapes are shown by Nos. 1, 13, 14 and 15; the Asbestos Compressible Air Duct is No. 11

(Photo Courtesy U. S. Rubber Co.)

Besides the multiflex airduct (Nos. 1, 13, 14 and 15) the photograph depicts the following:

No. 2—Heater connection fitting
Nos. 3 and 4—Oil collar panel connection
No. 5—Gun blast boot for protecting gun mechanism
No. 6—Defroster fitting
No. 7—Heater hose nozzle
No. 8—Elbow for heating line
No. 9—Elbow for heat distribution
No. 10—Heater register fitting
No. 11—Asbeston Compressible Air Duct
No. 12—Air Duct Hose, neoprene tube with asbeston carcass
No. 16—Flame retardant hose
No. 17—Steam Hose (not for aircraft use)
No. 18—Packing (not for aircraft use)

Asbeston is used in all of these. All of them with the exception of No. 11 are made by the Mechanical Goods Division of the United States Rubber Company; No. 11 is made by the Textile Division.

There are other uses for this new asbestos type flex-

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U. S. Patent Nos. 2,131,374, 2,209,752, 2,209,753, 2,209,754

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ible unit; such as a machine gun shell ejection chute which is connected to the ejection chamber of the gun. Discharged shells from the gun fall from the ejection chamber into the chute which guides them to a receptacle, enabling salvage of valuable metal.

A special duct system has been devised by which bombsights are kept at exact temperature to insure proper working at all times. Windshields equipped with extensible defroster hose are kept from frosting or steam by use of one of these ducts.

One of the major aircraft companies is using this flexible asbestos duct material in a special system employed in its vital motor testing laboratory. It is also adaptable to airduct systems in temporary buildings and in parts of an air conditioning system where the duct has to be bent around obstructions or where there is not much space available for a conventional duct system of metal.

Hand sewn materials and bellows previously employed in some parts of aircraft production contained as many as 25 to 30 corrugations each. These units are now turned out in three minutes by employing the new asbestos-fabric. Before this the operation required a half hour for a single unit.

The new ducts are also being used to heat carburetors, as turbo cooling ducts, header ducts, generator blast tubes, fire wall seals and many other working parts of airplanes. More than 10,000 United Nations planes flying on various fronts are now equipped with this material.

After the war cargo and passenger ships will use the material in their air conditioning and refrigerating systems; home and office heating and air conditioning systems and especially such systems on trains, buses and other conveyances, will use it because of its flexibility and the saving in weight.

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MARKET CONDITIONS

GENERAL BUSINESS

There is little change in the general business situation from last month. War production problems are still with all industry and such production must be kept up to the pace set by the need for materiel for the South Pacific war. Authorities seem to differ greatly on the question of how long that war will last, therefore there is nothing to do but go ahead with full speed until the end is in actual sight.

On the other hand reconversion problems are becoming more acute. The National City Bank letter for June says:

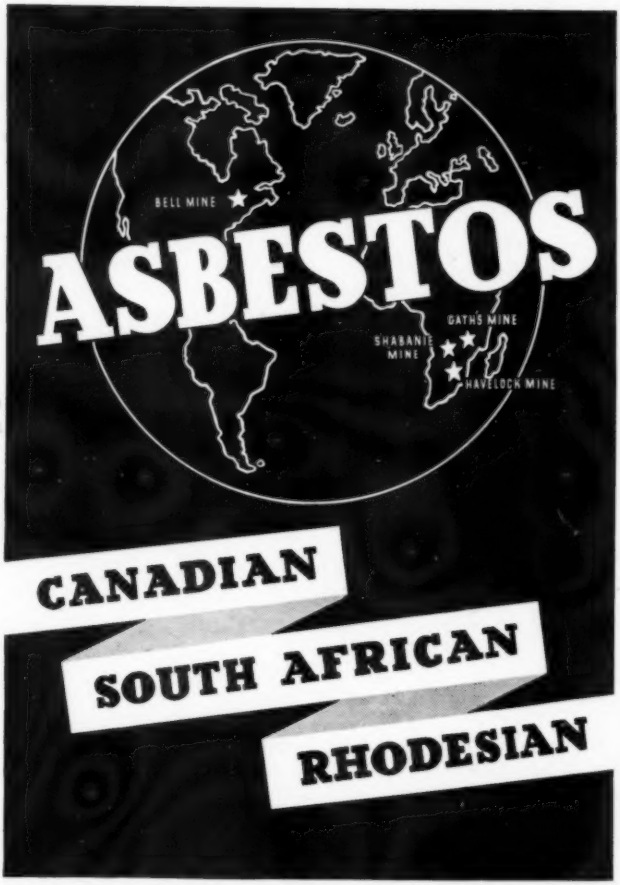
"The industries have to their credit a miracle of conversion. What is needed in the months to come is an equivalent miracle of reconversion. It is needed to speed the flow of goods into the markets, to provide employment, to supply civilian requirements and restore living standards, and thereby to combat the menace of inflation and cure the evil of black markets. In important respects it should be easier to reconvert than it was to convert, since the industries will be returning to the manufacture of familiar goods."

From one source and another come indications of the plans being made for the reconversion and postwar periods, and while mistakes will undoubtedly be made, it can be clearly seen that Industry is giving much thought and attention to such plans, and trying to steer clear of the pitfalls which will inevitably appear as the plans are put into effect.

ASBESTOS- RAW MATERIAL

Some shortage of asbestos crudes and of some of the longer spinning fibres is reported. It is probable that a big shortage will develop in the near future in fibres used for asbestos-cement products because of the large demand from old plants now re-opening in France, Belgium and Holland.

Prices have been announced by the Canadian Mine Producers and they are the same for the third quarter of this year as in the second quarter.



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ASBESTOS - MANUFACTURED GOODS

Asbestos Textiles. We have received two very interesting comments on the market situation in asbestos textiles, and while not contradictory we are quoting them verbatim: The first says:

"There has been no decrease in the demand for textiles. Some postwar feelers have been received. Production still below capacity due to lack of labor."

The second states: "Market appears to be strong with prices steady. Certain changes in Navy requirements are necessitating change-over of production items and there appears to be a possibility of the producers of fine tapes being in a better position to service their civilian trade due to a tapering off of military requirements for this type of material. Any real relief in this direction will be determined in Washington thru the actions of the various agencies concerned in the allocation of Asbestos Textiles."

Brake Lining. We are told that Army contract terminations are being received by brake lining manufacturers on brake blocks, but it is expected that this loss will be made good by the increased demand for civilian truck blocks.

Demand for molded brake linings is fairly steady; woven linings are, of course, hard to get because of the large requirements for asbestos listings.

May sales of brake lining and clutch facings were not up to their usual point. Not only was there a decrease from last May but also from April 1945. These decreases are, in the main, directly attributable to the fact that vehicle manufacturers are producing very little for civilian use and with military requirements curtailed, sales naturally have been lower.

While sales for domestic consumption decreased from last May, exports on the other hand, increased. A very slight rise in sales over last May was recorded; the increase over April 1945 was more substantial.

Asbestos Paper. Demand has diminished in this market but it is believed to be only a temporary slackening.

Asbestos Millboard. Demand is fair with future trend somewhat uncertain.

High Pressure Insulation. Call for the high pressure types of insulation is reported as steady; one manufacturer reports a large backlog of orders. Production, probably due to manpower shortage, is below normal.

Another manufacturer calls our attention to the critical shortage of cotton textile materials, as a factor in this market. If canvas jacketing material is not available in sufficient quantity curtailment of shipments of high pressure insulation will result.

Low Pressure Insulation. Demand in this commodity is greatly reduced; some manufacturers are running about 50% capacity. Resumption of general building activity will most likely result in an improved market in the Low Pressure type.

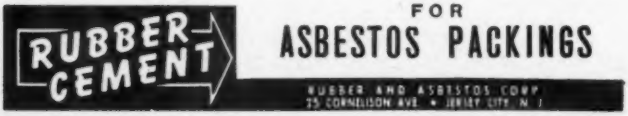
Asbestos-Cement Products. The situation in this market has changed little since last month. Requirements for siding shingles are still far ahead of ability to supply and will continue so until the manpower situation eases.

Almost the same is true of wallboards; demand for corrugated and flat sheets remains steady.

The above comments have been compiled from letters received from men in constant contact with field conditions. Opinions and comments are always welcome.

WPA EXEMPTS RAW ASBESTOS

All grades and types of unmanufactured asbestos are exempted from inventory limitations and from the limits on the purchase of maintenance, repair and operating supplies thru the amendment on June 22nd of General Inventory Order M-161. Previously, only asbestos of grades in Groups 4, 5, 6, 7, 8 and 9 (Canadian Asbestos Classification) were included in Schedule A (the exemption list) of Order M-161. This according to WPB Release No. 8365.



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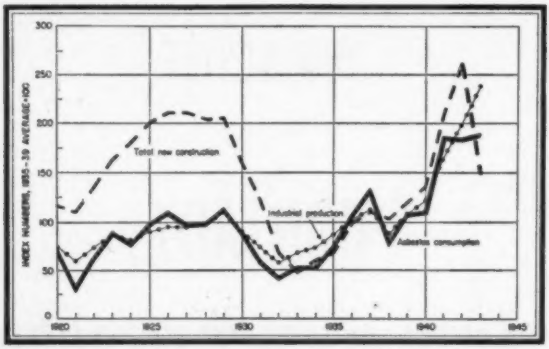
MINERALS YEARBOOK CHAPTERS RELEASED FOR PUBLICATION

Minerals Yearbook Chapters on Asbestos for 1942 and 1943[1] have just been released by the U. S. Bureau of Mines. These two chapters were compiled by Dr. Oliver Bowles and F. M. Barsigian, and give a very comprehensive survey of the asbestos field for the years covered, including production figures for the United States. (See page 28 of this issue of "ASBESTOS").

The following graph which compares new construction, industrial production and asbestos consumption will be of interest.



Consumption of asbestos compared with total new construction and industrial production, 1920 to 1943. Units are reduced to percentages of the 1935-39 average.

The Chapters also give figures for U. S. A. imports and exports of raw asbestos and exports of manufactured goods for 1942 and 1943. These tables are given below: (Tons — 2000 lbs.)

Raw Asbestos

	Imports		Exports	
	Tons	Value	Tons	Value
1942	419,242	$21,217,650	774	$134,411
1943	440,225	23,053,524	364	34,355

[1] See page 40 March 1944 "ASBESTOS" and page 23 of April 1944, for the 1941 Minerals Yearbook Chapter.

Exports of Manufactured Asbestos Goods:

	1942		1943	
	Quantity	Value	Quantity	Value
Brake Lining—				
Molded & semi-molded Tons	1,810	$1,706,624	703	$1,143,327
Not molded ..... Ft.	749,449	283,900	353,892	195,888
Clutch Facings ..... Units	1,432,442	558,515	1,282,190	554,561
Paper, Mlbd., Rollboard . Tons	679	102,660	899	107,060
Pipe Covg., cement ..... Tons	1,063	135,158	1,362	181,909
Textiles, Yarn, Packing ... Tons	1,017	1,154,161	975	1,132,411
Asbestos Roofing ..... Sqs.	97,668	169,331	54,896	305,243
Other Asbestos Mfrs. ..... Tons	3,002	780,725	2,753	639,149
Magnesia and Mfrs. ..... Tons	1,305	225,845	7,135	616,952
		$5,116,919		$4,876,500

Another very interesting tabulation is that of Apparent Consumption of Raw Asbestos in the United States:

	U. S. Consumption Raw Asbestos Short Tons
1941	438,741
1942	433,949
1943	445,905

Copies of these Chapters may be obtained from the Superintendent of Documents, Washington, D. C., at a price of 5c each.

• • • —

Fifty-three new synthetic rubbers have been produced in the three synthetic rubber plants operated by the United States Rubber Company during 1944. Of these eight types have been adopted for regular use in the manufacture of rubber insulation of electric wire and cable, porous rubber storage battery separators, asbestos sheet packing and pressure-sensitive adhesives. Fourteen million pounds were made for these special purposes during the year.

• • • —

In historical perspective the reconversion period will not be long but its importance will be great, for in it a turn may be made either toward, or away from, the perpetuation and extension of detailed government controls over business. The decisions made will not only affect the volume of business activity and employment; they will also exert a lasting and profound influence upon the nature of our economic system in years to come.—National City Bank Letter.

WANTED
Winding Machines for Air Cell and Wool Felt Covering. Standard Asbestos Mfg. Company, 820 W. Lake St., Chicago, 7, Ill.

Canada

(From Department of Mines, Province of Quebec)

	1945 Tons (2000 lbs.)	1944 Tons (2000 lbs.)
April	43,267	33,680
May	41,691	35,477

Africa (Union of South)

The U. S. Minerals Yearbook Chapters (See Page 26) give some interesting data on production of Asbestos in Africa during 1939, 1940, 1941. 1942. (Tons — 2000 lbs.)

	1939	1940	1941	1942
Transvaal				
Amosite	11,299	17,767	19,211	24,936
Blue	3,983	2,520	776	360
Chrysotile	612	646	1,658	1,917
Anthophyllite	12	78	59	65
Cape				
Blue	6,144	6,381	6,576	7,281
	22,050	27,392	28,280	34,559

Africa (Rhodesia)

(From Chapters from "U. S. Minerals Yearbook")[1]

No figures for Rhodesian asbestos production have been published since May 1940, but export data are available, and as local sales are quite small, exports are an approximate measure of production.

	Short Tons	Value
1939	58,313	£1,088,782
1940	57,891	1,419,566
1941	54,224	1,419,405
1942	62,332	1,811,042

United States

(From Chapters from "U. S. Minerals Yearbook")[1]

	1941		1942		1943	
	Tons	Value	Tons	Value	Tons	Value
Chrysotile	22,439	$707,589	13,373	$480,245	3,900	$302,289
Amphibole	1,952	18,164	2,108	18,612	2,114	32,526
Total	24,391	$725,753	15,481	$498,857	6,014	$334,815

Tons — 2000 lbs.

[1] Compiled by Oliver Bowles and F. M. Barsigian. Recently released for publication by U. S. Bureau of Mines.

CONTRACTORS AND DISTRIBUTORS PAGE

BUILDING

Construction activity in the thirty-seven states east of the Rocky Mountains showed sharp gains in May, according to F. W. Dodge Corporation. Contracts awarded in May called for an outlay of $242,523,000, which was 68% more than in May of last year. Total contracts for the first five months of this year amounted to $1,255,101,000, a gain of 57% over the same period of last year.

Nonresidential building in May was up 62% over last year, residential construction gained 36%, and heavy engineering construction, comprising public works and utilities, was up 93%. The most significant gain in May was in residential construction, which trailed last year's volume in each of the preceding four months of the year.

Publicly-owned construction contracts in May amounted to $147,626,000, a gain of 51% above the total for May 1944. Privately-owned construction contracts in May totaled $94,897,000 a gain of 105% over the same month of 1944.

During the first five months of the year, publicly-owned construction contracts accounted for 66% of the total of all contracts awarded, compared with 75% in the first five months of 1944.

. . . —

The field staff of the F. W. Dodge Corporation by the end of May had spotted 99,638 specific construction projects contemplated for postwar execution in the thirty-seven states east of the Rocky Mountains. The combined value of these projects is $15,746,202.000. The listings include specific projects only; they do not include announcements of general construction or expansion programs.

TEST

. . . the added sales volume awaiting you among the nation's roofing and siding contractors. Write to . . .

AMERICAN ROOFER and SIDING CONTRACTOR
425 Fourth Avenue, New York City

NEWS OF THE INDUSTRY

BIRTHDAYS

L. W. Noland, President, Noland Co., Newport News, Va., July 17.

Clifford F. Favrot, Partner, R. J. Dorn Co., New Orleans, La., July 18.

G. F. Bahrs, Treasurer, The Ruberoid Co., New York City, N.Y., July 18.

J. F. D. Rohrbach, Vice President, Raybestos-Manhattan, Inc., Bridgeport, Conn., July 18.

C. B. Whitley, Secretary, Scandinavia Belting Co., Charlotte, N. C., July 20.

R. S. King, President, Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, July 21.

C. R. Hubbard, Vice President, Garlock Packing Co., Palmyra, N. Y., July 25.

Hilton A. Moberg, President, Arnold Insulations, Inc., Chicago, Ill., July 25.

George R. Weber, Vice President, Raybestos-Manhattan, Inc., Manheim, Pa., July 25.

Frank C. LeRow, Vice President and Treasurer, Asbestos, Asphalt & Insulation Mfg. Co., Chicago, Ill., July 26.

Lester Kirschbraun, Vice President, The Flintkote Company, New York City, July 27.

John Ozurovich, President, Atlantic Asbestos Corp., New York City, July 31.

Harry Heckroth, Vice President, Penn Supply & Metal Corporation, Philadelphia, August 2nd.

Arthur C. Sprinkmann, Vice President, Sprinkmann Sons Corp., Milwaukee, Wis., August 3.

C. W. Gregg, Treasurer and Director, The Flintkote Co., New York City, August 3.

I. A. Whittaker, Secretary-Treasurer, Crandall Packing Co., Palmyra, N. Y., August 6.

A. P. Keasbey, President, Robert A. Keasbey Company, New York City, August 6.

Paul C. Collopy, President, Acme Asbestos Covering & Flooring Co., Chicago, Ill., August 8.

Grant V. Wilson, President, Grant Wilson, Inc., Chicago, Ill., August 11.

O. W. Trumbull, Vice President and General Manager, Greene-Tweed & Company, New York City, August 12.

W. L. Steffens, Vice President and Director, The Philip Carey Mfg. Co., Lockland, Cincinnati, Ohio, August 13.

Ernest Muehleck, President, Keasbey & Mattison Co., Ambler, Pa., August 15.

G. P. Heppes, Vice President and Director, The Flintkote Co., New York City, August 16.

• BLUE ASBESTOS

The Cape Asbestos Company, Ltd., is the world's largest supplier of acid-resistant blue crocidolite asbestos, and the only manufacturer operating its own mines. Inquiries solicited on:

MILLBOARD **YARNS**
ROVINGS **POWDER** **CLOTHS**
PROCESSED FIBRES
Unexcelled for use in
ASBESTOS CEMENT PIPES

• AMOSITE ASBESTOS

This fibre owing to its great length and bulk is unrivalled for use as an insulating medium in:

Asbestos mattress filler
85% Magnesia insulation

The CAPE ASBESTOS CO. Limited

Morley House, 28-30 Holborn Viaduct, London, E.C.1.
FACTORY, BARKING, ESSEX

United States Sales Agent:

ARNOLD W. KOEHLER
415 LEXINGTON AVE. **NEW YORK CITY**
TELEPHONE—VANDERBILT 6-1477

Herbert E. Smith, President, U. S. Rubber Co., New York City, August 16.

To all these gentlemen we extend congratulations and best wishes on the occasion of their birthdays.

GEORGE CARY, has been appointed Milwaukee District staff manager of Johns-Manville's government department. In his new post, which he assumed on July 1, Mr. Cary will have responsibility for sales and service to Federal and State agencies in Wisconsin, Minnesota, North Dakota and the Upper Peninsula of Michigan. Until his recent promotion, Mr. Cary was senior sales representative for Johns-Manville building materials in the Twin Cities. Earlier, he held a senior sales position in the Racine-Kenosha area.

"STANDARDS NOW AVAILABLE FOR WORKERS' ASBESTOS CLOTHING". This article by E. L. Wheeler Manufacturing Company, Chicago, was published in the March 1945 issue of Industrial Standardization (70 E. 45th St., New York, 17, N. Y.) The new American War Standard Specifications for Protective Occupation (Safety) Clothing for asbestos aprons, cape, sleeves, etc., are available from the American Standards Association, at the same New York address for a very nominal price.

THE MANHATTAN RUBBER MFG. DIVISION of Raybestos-Manhattan, Inc., Passaic, N. J., has received two First Awards from the National Advertising Agency Network at its Twelfth Annual Competition held in Washington last week.

One award was for "Best Integrated Advertising and Merchandising Campaign".

The other was for "Employee Relations Program", covering their publicity and other promotional activities dealing with employees and servicemen relations. They received this same award in 1944 and second prize in 1943.

"PACKING: A SPRINGBOARD FOR OTHER ORDERS" appears in the May 1945 issue of Mill Supplies. This article contains a lot of hints for the packing salesman, and those interested in that line should by all means read the article. The address of Mill Supplies is 330 W. 42nd St., New York City, but the magazine can no doubt be found in the periodical room of your local library.

CONNELL ASBESTOS MFG. COMPANY is now established at Building 1, Atlas Terminal, Glendale 27, L. I., where E. T. Connell, its founder and head, will continue to serve his old customers with his usual promptness and satisfaction. His new telephone number is Havemeyer 8-0944.

THE ANCHOR PACKING COMPANY announces the appointment of C. B. Wellborn as manager of their St. Louis, Mo. office, and of D. H. Rueger as manager of their Buffalo, N. Y. branch.

CAROLINA ASBESTOS COMPANY

CUSTOM MANUFACTURERS
OF
ASBESTOS TEXTILE PRODUCTS

CAROLINA ASBESTOS TEXTILES

ARE COMPLETELY ENGINEERED FOR MODERN REQUIREMENTS IN THE MANUFACTURE OF SAFETY-CLOTHING, ELECTRICAL HEATER-CORDS, DRYER-FELTS, PLASTICS AND MANY OTHER PRODUCTS REQUIRING THE USE OF ASBESTOS TEXTILES.

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OIL BURNER WICKING

CAROLINA ASBESTOS COMPANY

EXECUTIVE OFFICES:
DAVIDSON, N. C.

FACTORIES:
DAVIDSON, N. C.
MARSHVILLE, N. C.

JOHNS-MANVILLE PLANS TO ISSUE PREFERRED STOCK

Directors of Johns-Manville Corporation plan to issue 170,000 shares of 3½% Cumulative Preferred Stock of $100 par value, convertible into common stock, if stockholders approve a proposed increase of authorized capital stock and creation of the new stock, according to a proxy statement mailed to stockholders on June 27th. A special meeting of stockholders to consider and vote upon the proposal has been called for July 17th.

It is planned to offer the new preferred stock to holders of common stock for subscription for cash at par on the basis of one share of preferred stock for each five shares of common stock. The preferred stock will be convertible into common stock at any date prior to August 1, 1955, share for share, upon the payment of $15 for each share.

While it is proposed to increase the authorized common stock from the present 1,000,000 shares to 1,500,000, there are no definite plans for issuance of any additional common stock except in connection with conversions of preferred stock.

According to the proxy statement, the preferred stock will be redeemable at any time at par value plus accrued dividends plus a premium of $5 a share if redeemed on or before August 1, 1946, $4 a share if redeemed thereafter and on or before August 1, 1947, $3 a share if redeemed thereafter and on or before August 1, 1948, $2 a share if redeemed at any time thereafter.

Johns-Manville is negotiating with Morgan Stanley & Co. for the underwriting of the preferred stock by that company and other underwriters.

In the letter accompanying the proxy statement, Lewis H. Brown, President, states:

"The Corporation and its consolidated subsidiaries have already provided a deferred expenditure fund of $14,000,000. The Corporation has in contemplation a program for the modernization and expansion of manufacturing and mining facilities and plants which, it is hoped, will reduce costs, provide for new developments, increase production of existing and new products and improve working conditions, all for the purpose of enabling the Corporation and its subsidiaries to meet anticipated postwar requirements in domestic and foreign markets. The deferred expenditure of $14,000,000, together with the proceeds of the contemplated issue of preferred stock, will be available to provide in whole or in part the funds necessary to carry out this program.

"SAFETY CLOTHING—Standards improved to Protect Workers," is the title of a brief article appearing in the July 1945 issue of Scientific American.

PATENTS

This information obtained from the Official Patent Gazette, published weekly by the U. S. Patent Office, Washington, D.. C.

Copies of patents can be obtained by sending 10c (in coin) to The Commissioner of Patents, Washington, D. C., giving the patent number, date issued, name of patentee and name of invention.

Aapparatus for Manufacturing Pipes of Composition Material. No. 2,373,672. Granted on April 17, 1945, to John Ferla, Chicago, assignor of one fourth to Paul X. Blaettler, Oaklyn, N. J., and three fourths to United States Asbestos Cement Pipe Company, Camden, N. J. Application June 6, 1938. Serial No. 212,070.

Apparatus for molding tubes having a bell end from cementitious composition material including a vat containing the material in suspension, a rotary screen in said vat, filtering out the liquid from said material, a mandrel above said screen and in vertical registry therewith, means for transferring the wet layer adhering to said screen to said mandrel and means for superposing on the wet layer adhering to said mandrel a layer of moist material and for applying pressure to said applied layers before the next succeeding layer is formed thereon.

Production of Magnesia from Dolomite. No. 2,373,912. Granted on April 17, 1945 to Robert D. Pike, Pittsburgh, Pa., assignor to Harbison-Walker Refractories Co., Pittsburgh, Pa. Application December 17, 1942. Serial No. 469,345.

That method of separating magnesia from dolomite which comprises adding to the raw dolomite from about 0.1% to 1% of magnesium chloride, calcining the mixture, slaking the calcine to produce a free flowing pulp, separating said pulp into coarse and fine fractions, reacting said coarse fractions with magnesium chloride brine and recovering magnesium hydrate, reacting said fine fraction separately with calcium chloride brine containing some magnesium chloride and then treating with carbon dioxide to form calcium carbonate and regenerate said brine.

Production of Magnesia and Calcium Carbonate from Dolomite. No. 2,373,913. Granted on April 17, 1945 to Robert D. Pike, Pittsburgh, Pa., assignor to Harbison-Walker Refractories Co., Pittsburgh. Application September 28, 1943. Serial No. 504,128.

In a cyclic process of producing magnesia and calcium carbonate from calcined dolomite in which the dolomite is dry hydrated with a calicum chloride brine, the hydrated material is divided into a granular and a fines fraction, the particles of which average finer than those of a granular fraction, said granular fraction is treated with cycling magnesium chloride brine to precipitate hydrated magnesia and produce a cycling calcium chloride brine and the magnesium chloride brine is regenerated by treating said fines fraction with said cycling

calcium chloride brine and carbonate dioxide, the steps comprising dry hydrating the dolomite calcine with said calcium chloride brine substantially free from magnesium chloride and effecting said precipitation of hydrated magnesia with a magnesium chloride brine containing dissolved sulfate and thereby repressing dispersion of the hydrated magnesia.

Method of Forming Asbestos Papers with Gel Binders. No. 2,373,914. Granted on April 17, 1945 to Robert G. Quinn, Bound Brook, N. J., assignor to Johns-Manville, New York. Application April 12, 1940. Serial No. 329,287.

The method of manufacturing thin asbestos paper of not to exceed .005 inch thickness, including asbestos fibres and a binder containing the reaction product of lime and diatomaceous earth, which comprises the steps of preparing a dilute slurry mixture including asbestos fibres, diatomaceous earth and water, flowing the slurry mixture on a forming screen, removing a substantial portion of the water contained to form a thin, felted fibrous sheet, then depositing an aqueous suspension of finely divided hydrated lime on the upper surface of the fibrous sheet, applying suction to the lower side of the fibrous sheet and drawing the lime substantially thruout the body of the fibrous sheet and finally subjecting the prepared fibrous sheet to the action of heat in the presence of steam, to chemically react the lime and diatomaceous earth, thereby forming a bonded asbestos paper.

Machine for Producing Pipes. No. 2,374,086. Granted on April 17, 1945, to John Ferla, assignor to U. S. Asbestos Cement Pipe Company, Camden, N. J. Application October 19, 1939. Serial No. 300,275.

In a machine for forming pipes, the combination with a mandrel of means for containing a liquid cementitious composition, means for transferring said liquid composition to a mandrel and forming an initial wet layer of cementitious material on the mandrel, rollers having bearing engagement with opposite sides of the mandrel and means for forming a moistened layer of cementitious material on one of the rollers for transferring thereby on to the initial layer on the mandrel.

Pipes, Apparatus and Process for Making. No. 2,374,087. Granted on April 17, 1945, to John Ferla, Chicago, Ill., assignor to U. S. Asbestos Cement Pipe Company, Camden, N. J. Application November 20, 1940. Serial No. 366,479.

A method of producing a pipe on the mandrel, comprising applying a preformed bell portion to said mandrel and forming a layer of cementitious material around said mandrel and the preformed bell portion, to form a pipe on the mandrel with a bell of greater thickness than the remainder of the pipe.

Treating Sheet Materials. No. 2,375,276. Granted on May 8, 1945, to George B. Brown, Manville, N. J., assignor to Johns-Manville, New York. Application October 27, 1942. Serial No. 463,545.

A process for smoothing a rough surface of a substantially rigid, but incompletely hardened fibre-cementitious sheet which comprises, advancing the sheet continuously at a pre-determined, uniform rate past a troweling station, applying to the surface of said sheet at said station, a rapid succession of sheet arcuate troweling impacts, the direction of application of said impacts being counter to the direction of sheet travel and the arcuate path of travel of said impacts extending into the surface of said sheet to a depth not greater than that of the deepest surface irregularities, the rate of advance of said sheet, the frequency of said impacts and the arcuate path thereof being so controlled that the entire area of sheet surface passing said station is level and burnished without displacing or pulling the fibres away from the bonding material and without stretching or otherwise changing the original dimensions of the sheet.

Packing. No. 2,376,039. Granted on May 15, 1945, to James Driscoll, Plainfield, and Emil J. Poltorak, Somerville, N. J., assignors to Johns-Manville Corporation, New York. Application April 9, 1943. Serial No. 482,440.

A packing comprising a resilient core including compacted resilient metal fabric composed of thin, flat ribbons and a heat resistant sheath surrounding said core.

Oil Stove Wick. No. 2,376,083. Granted on May 15, 1945 to Robert G. Quinn, Bound Brook, N. J., assignor to Johns-Manville Corp. Application October 5, 1943. Serial No. 505,012. A wick for oil stoves comprising multi-ply asbestos paper laminate having at least one inner core ply of greater thickness than the outer plies and which consists chiefly of amphibole asbestos fibres.

Asbestos Board. No. 2,376,919. Granted on May 29th to Clyde R. Hutchcroft, Eureka, Pa., assignor to Keasbey & Mattison Company, Ambler, Pa. Application March 14, 1941. Serial No. 383,449.

An electrical insulating material comprising in its composition asbestos fibres 225 to 325 parts, aluminous cement 50 to 70 parts, a filler 20 to 50 parts and a bituminous electrical insulating compound impregnating said mass and diffused therethrough so that said insulating material is easily drilled and cut and has an alkalinity ranging from 3 to 15 milligrams of potassium hydroxide per gram of an insulating material when the alkalinity has been calculated as potassium hydroxide and the water absorption of said material is of the order of 0.75% or less.

Process for Curing Asbestos-Cement Pipes. No. 2,377,480. Granted on June 5, 1945, to John Arthur Cann, Bickley, England. Assignor to Turner & Newall, Ltd., Spotland, Rochdale, England. Original application May 23, 1941. Serial No. 394,909. Divided and this application filed May 14, 1943. Serial No. 487,006. In Great Britain May 27, 1940.

The process of producing asbestos-cement pipe, comprising coating a solid mandrel with a layer of plastic asbestos-cement, loosening said plastic coating on said mandrel in a hot, humid atmosphere by maintaining the temperature at or below 150° F.

to prevent swelling and maintaining said temperature for a time effective to set said loosened coating.

Making Magnesia from Dolomite. No. 2,377,592. Granted on June 5, 1945 to Alfred M. Thomsen, San Francisco, Calif. Application January 7, 1942. Serial No. 425,859.

The method of making Magnesia from dolomite which comprises an initial treatment of a sulphuric acid pickle liquor by commingling same with sodium chloride and crystallizing out the major part of the sulphates resident therein in the form of sodium sulphate; commingling the resultant mother liquor with sufficient calcined dolomite to insure the precipitation of substantially all the remaining resident sulphates of the pickle liquor in the form of iron mud, a mixture of calcium sulphate and iron hydroxides; separating said iron mud from the solution containing principally chlorides of iron; commingling said solution with sufficient additional calcined dolomite to insure precipitation of the resident iron as iron hydroxides free from calcined sulphate, separating said precipitate of iron hydroxide from the solution now containing chiefly chlorides of calcium of magnesium; commingling said solution with a free addition of calcined dolomite in sufficient amount to precipitate the magnesium resident therein so as to obtain a solution consisting essentially of calcium chloride and suspended therein a precipitate of magnesium hydroxide, commingling with the residual magnesium and the calcined dolomite; finally separating said suspended solids from said residual solution of calcium chloride.

BOOK LIST

Asbestos Mining Methods. By C. V. Smith. (Reprint) 16 pages. 25c per copy, discount in quantities of 50 or more.

The Asbestos Factbook. 16 pages. Information in compact form on origin, facts, locations, uses, analyses, qualities, 10c per copy.

Canadian Chrysotile Asbestos Classification. (Reprint) 25c per copy.

Twelve Estimating Tables, with Chart. Convenient in figuring flange fittings and other areas. $1.00 per set.

Manual of Unit Prices (for figuring pipe covering and blocks) 30c per copy postpaid.

Processing Asbestos Fibres. 8 pages. (Reprint) 25c per copy

Tests for Cotton Content. 4 pages. (Reprint) Describing several methods of testing asbestos textiles for cotton content. 10c per copy.

Chart—Dollars Cost of Uninsulated Pipe. (Reprint) 20c each

Asbestos: The Magic Mineral, by Lilian Holmes Strack. Written especially for school children but every Asbestos Library should have a copy. $1.00 per copy.

Order any of the above from "ASBESTOS", 17th Fl., Inquirer Bldg., Philadelphia, 30, Pa.

THIS and THAT

WPB has appointed reconversion chairmen for approximately 400 industries. The chairmen will advise and consult with their various industries on problems affecting machine tools, equipment, construction and materials for reconversion and should be consulted on all reconversion problems. The reconversion chairman for the Cork, Asbestos and Fibrous Division is J. E. Cole.

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The subject of Air Duct Friction will be a major study at the Research Laboratory of the American Society of Heating & Ventilating Engineers, Cleveland, Ohio, under the direction of the Technical Advisory Committee on Air Distribution and Air Friction.

• • • —

To help reconstruct peacetime foreign trade to record proportions, arrivals and departures of all merchant ships operating in the Atlantic are now again being published and a new postwar guide to "World Trade Routes" has just been issued by The N. Y. Journal of Commerce. A complete survey of available vessels, number of monthly sailings and ports of call in each of the principal ship routes of the world has been gathered in this pamphlet. Copies may be had at 25c each from The N. Y. Journal of Commerce, 63 Park Row, New York, 15, N. Y.

• • • —

The need for large scale construction after the war is obvious—better homes, better industrial and commercial structures and facilities, better highways, new air terminals and huge developments of various kinds for better utilization of our natural resources, as rivers and harbors and reclamation projects.—*Harry A. Dick, President, Associated General Contractors of America.*

ASBESTOS CEMENT CHEMIST

Experienced in manufacture of cement asbestos products. Research and development. Company has excellent post war future. Wonderful opportunity for the right man. Location—Metropolitan New York area. Send complete resume, including draft status, to Box No. 2F-N, "ASBESTOS", 17th Fl., Inquirer Bldg., Phila., 30, Pa.

CURRENT RANGE OF PRICE

As of July 10, 1945

Canadian—	Per Ton (2000 lbs.) f.o.b. Mine (In U. S. Funds)
Group No. 1 (Crude No. 1)	$650.00 to $750.00
Group No. 2 (Crude No. 2; Crude Run-of-Mine and Sundry)	165.00 to 385.00
Group No. 3 (Spinning or Textile Fibre)	124.00 to 260.00
Group No. 4 (Shingle Fibre)	62.50 to 90.00
Group No. 5 (Paper Fibre)	44.00 to 53.00
Group No. 6 (Waste, Stucco or Plaster)	33.00 to 35.00
Group No. 7 (Refuse or Shorts)	14.50 to 30.00

Vermont—	Per Ton (2000 lbs.) f.o.b. Hyde Park, Vt.
Shingle Stock Fibres	$62.50 to $65.50
Paper Stock Fibres	44.00 to 54.00
Waste	33.00
Shorts	14.50 to 28.50
Floats	19.50

Note: Crude Run-of-Mine (Canadian) refers to a crude asbestos produced in certain mines where Crude Fibre is not graded into regular No. 1 and 2 Crude. Crude Sundry refers to certain odd lots of off grade material which do not conform to the regular standards of No. 1 Crude or No. 2 Crude.

ASBESTOS STOCK QUOTATIONS

(These figures are compiled from the Commercial and Financial Chronicle. No guarantee made as to their correctness).

		June 1945		
	Par	Low	High	Last
Armstrong Cork Co. (Com).	np	43⅝	48½	46
Asbestos Corp. (Com.)	np	24	26¾	25¾
Celotex (Com.)	np	16¼	18	16½
Celotex (Pfd.)	20	20¼	21¾	20½
Certainteed (Com.)	1	10⅜	11¾	10⅜
Certainteed (Pfd.)	100	153	162	158
Flintkote (Com.)	np	28⅛	30⅞	29⅜
Flintkote (Pfd.)	np	106	110	110
Johns-Manville (Com.)	np	118	128	120
Raybestos-Manhattan (Com.)	np	36	39¼	36
Ruberoid (Com.)	np	36¼	39	37⅝
Thermoid (Com.)	1	11	12¾	11¼
Thermoid (Pfd.)	10	53½	56	54⅝
U. S. Gypsum (Com.)	20	90	94⅜	90
U. S. Gypsum (Pfd.)	100	189½	196	193½
U. S. Rubber (Com.)	10	57½	61¾	58⅜
U. S. Rubber (Pfd.)	100	163	171	170½

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